

CAL POLY REPORT

California Polytechnic State University
San Luis Obispo, California 93407

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Truex to head Graphics

Based upon the recommendations of the faculty of the Graphic Communications Department as well as Jon M. Ericson (Dean, Communicative Arts and Humanities) and Hazel J. Jones (Vice President for Academic Affairs), Acting President Dale W. Andrews has appointed Joseph W. Truex to the position of acting head of the Graphic Communications Department effective Aug. 31. The current department head, John B. Wordeman, has requested that he be permitted to return to full-time teaching. Mr. Truex will serve until appointment of a permanent department head, a search for whom will soon be underway.

McCaleb to head Public Affairs

Based upon consultation and recommendation by Howard West (Acting Executive Vice President), Acting President Dale W. Andrews has appointed Donald L. McCaleb Acting Director, Public Affairs, effective upon the resignation of Lachlan P. MacDonald on or about May 1. In addition to his new duties, McCaleb will direct the university's public information program with the assistance of Kip Ruddy (Agricultural Information Specialist).

Mexico To Copy Poly AG Program

The intention of the Republic of Mexico to pattern its agricultural education program after the "learn-by-doing" system developed by Cal Poly has resulted in a four-year, \$600,000 cooperative agreement between Mexico and the university. Under terms of the agreement between Mexico and the non-profit Cal Poly Foundation, 240 Mexican agricultural teachers will attend six-week summer workshops for the next four years at Cal Poly to study agricultural technology and agricultural instruction methods. They will be taught by members of the university faculty.

The signed agreement was delivered in Mexico City Mar. 30 on behalf of the university by Howard C. Brown (Dean, Agriculture and Natural Resources), Larry Rathbun (Head, Agricultural Education), and Keith Smith (Agricultural Education). Dr. Rathbun will serve as project director and Smith, as the lead consultant on the program in cooperation with Mexico's Ministry of Education. The first workshop this summer will run from July 9 to Aug. 17.

The idea for the cooperative agreement with Mexico began several years ago when a team of Mexican education specialists visited several U.S. universities, including Cal Poly, Dr. Rathbun said. The Cal Poly system, a blend of classroom instruction and practical application on the university's 4,700 acres devoted to agricul-

ture, motivated the visitors into negotiations which resulted in the signing of the cooperative agreement, he said.

In addition to the six-week summer workshops each summer, followup weekend workshops will be conducted in Mexico for the teachers, Dr. Rathbun said. "The emphasis in the workshops will be on the technology involved in teaching agricultural subjects," he said. "But since the Mexican Ministry of Education wants to implement a system similar to Cal Poly's, part of the workshop instruction will also deal with our agricultural instruction methods."

Dr. Rathbun said the Mexican Ministry of Education is particularly interested in instructional methods used in the fields of crop production, livestock production, agricultural mechanics, and meat and milk processing. "These teachers already have a sound theoretical knowledge of their fields," he said. "We will be providing information on the technology involved for teaching in these fields."

He said the Mexican teachers who complete the program at Cal Poly will then return to their country and start up the 11 schools to be based on the Cal Poly model. Facilities and equipment for the agricultural instruction program in Mexico have already been completed, Dr. Rathbun said. The schools are all at the secondary or community college level.

Collective bargaining publication

Within the next few days copies of a booklet published by the Chancellor's Office, The California State University and Colleges, titled "Collective Bargaining—It's Your Choice," will be distributed to all faculty and staff at Cal Poly. Using the system of distribution of Cal Poly Report, sufficient copies of this publication for all faculty and staff will be distributed to departments. It is requested that departmental secretaries and others so concerned be sure that each member of the faculty and staff obtain a copy of the booklet.

Commencement invitation

The 73rd Annual Cal Poly Commencement ceremony will be held on Saturday (June 9) at 3:30 pm. Any Cal Poly faculty and staff member who holds a baccalaureate degree or higher is invited to participate in the commencement procession and ceremony. Please notify your department head or any supervisor should you plan to take part so that appropriate information may be furnished. Department heads and supervisors are asked to report a count of participants by memo or phone to Wesley Conner in the Ornamental Horticulture Department by May 25.

Proposals requested

Proposals are being requested by the CSUC Fund for Innovation and Improvement in Education for the 1979-80 academic year. Competition, which will be systemwide, is restricted to three issues of major concern:

- Improving instruction in general education.
- Improving the quality of academic advising.
- Finding better ways to respond to educational needs of underrepresented groups such as ethnic minorities, the disadvantaged, and handicapped, women, and older adults.

Proposals may be submitted for no less than \$5,000 and no more than \$50,000, with the probability that most campus proposals will be for no more than \$30,000. Funding will be available for Aug. 1, 1979 to June 30, 1980, and covers reimbursed faculty time, clerical assistance, office supplies, printing, in-state travel, and consultant or contract fees. Equipment is not covered unless essential to the proposal and not otherwise available.

One copy of the proposal should be submitted to David Grant (Adm. 309) not later than Friday (May 11). Announcement by the Chancellor's Office will be by June 15. Copies of the proposal information are available in Administration 309 or may be secured by calling Ext. 2051.

Campus Blood Drive

The Campus Blood Drive this quarter will be held at Chumash Auditorium on Tuesday (Apr. 24) from 9 am to 2 pm. Sponsors include Alpha Phi Omega, Gamma Sigma Sigma, Student Health Advisory Council, the Cal Poly Wives' Club, Scabard and Blade and the Student Health Center. Students, staff, and faculty are urged to donate. Refreshments will be served and no appointment is necessary.

Secretaries' week

April 22-28, is the 28th annual secretaries week. Wednesday (Apr. 25) is secretaries day, sponsored by the National Secretaries Association-International.

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Biblical scholar will speak

Birger Pearson, chairman of the Religious Studies Department at University of California, Santa Barbara, and noted authority on Biblical literature and Christian origins, will lecture at Cal Poly on Thursday, (Apr. 19) at 8 pm. Topic of his remarks, which will be given in Science B-5 under sponsorship of the Philosophy Department and School of Communicative Arts and Humanities, will be "Early Christian Heresies from Ancient Egypt: Outmoded Myths or Forgotten Truths?" Admission will be free and the public is invited.

Dr. Pearson's illustrated lecture will center on the Nag Hammadi Codices discovered in 1945 in upper Egypt. Believed by many scholars to be as important as the Dead Sea Scrolls, these documents present a different view of Christian origins than the New Testament. A graduate of Pacific Lutheran Seminary; University of California, Berkeley; and Harvard University, Dr. Pearson was a member of the team of scholars that undertook a comprehensive study and translation of the codices beginning in 1970. His lecture at Cal Poly is being presented as a special added event in the continuing Arts and Humanities 1978-79 program series.



Sixth Annual Graphic Design Show

Between 250 and 300 examples of graphic design by Cal Poly art students will be on display in the University Union Galerie through Friday (May 4). The sixth annual Graphic Design Show, easily one of the most popular regularly scheduled Galerie exhibits, opened at 7 pm on Monday (Apr. 16). Pierre Rademaker (Art) said between 50 and 100 students enrolled in the department's graphic design concentration have submitted entries for the show, and that those entries will be juried by members of the department faculty.

For those works selected, heavy emphasis is placed on visual literacy, solid drawing skills, and broad technical knowledge. A high level of craftsmanship is expected. Corporate identity portfolios are exhibited, along with poster art, advertising designs, and representative samplings of almost every type of graphic device.

Galerie hours are 10 am to 10 pm, Mondays through Saturdays, and noon to 10 pm on Sundays. The exhibit is cooperatively sponsored by the ASI Fine Arts Committee and the Art Department.

University Club golf tournament

The University Club Golf Tournament will be on Saturday (May 12) with Tee times starting at 10 am at the Morro Bay golf course. Please send Tee time reservation to Terry Cooper (Soil Science) by May 3; Green Fee \$5.00 — Lots of awards.

Cal Poly Report copy intended for the next issue should be submitted to Betty Holland, Adm. 125, Ext. 2576, prior to 12 noon on Monday.

Cal Poly Dateline is compiled by the Public Affairs Office, Adm. 401, Ext. 2246, and is published on Monday. Typewritten copy intended for the next issue should be submitted to Cathy Burt, Adm. 401, prior to 12 noon on Wednesday.

Publications Editor: Fred Wolf, Ext. 2158, Adm. 210.

Automated health unit coming

Health Examinetics, sponsored by The Association of California State University Professors, will have a mobile health testing unit on the south side of the Health Center on May 1 and 2. Testing hours will be from 11 am to 6 pm. In approximately 40 minutes fifty different tests will be taken by trained technicians. Test results will be sent to physicians designated by the employee. The information is held confidential.

Costs are as follows: no charge for ACSUP members and dependents (age 13 and above) enrolled in the ACSUP Medical Insurance Program; \$61 per adult person for ACSUP members not enrolled in the ACSUP Medical Plan; \$69 per adult person for non-ACSUP members; \$45 per child between ages 13 and 17 (note: children's panel excludes x-ray, pap, EKG, tonometry and blood chemistries). Appointments are necessary. All interested employees should call the toll-free number (1) 800-542-6233 for information and for an appointment.



Poly Royal class guidelines set

Hazel J. Jones (Vice President for Academic Affairs) reminds all faculty members that classes scheduled during Poly Royal period from 12 noon, Thursday (Apr. 26) through Saturday (Apr. 28) will not meet as scheduled. Although classes will not be held, all students and staff are expected to participate fully in preparation of and participation in the Poly Royal exhibits and events. These days are not academic holidays.

Announcements from Chancellor's Office

Three announcements made by the Chancellor's Office of The California State University and Colleges recently will be of interest to Cal Poly faculty and staff. Donald R. Floyd (Social Sciences) has been appointed full-time resident director for Sweden and Denmark in The CSUC International Program for the 1980-81 academic year. L. Robert Sorensen (Head, Psychology) has been appointed part-time resident director for the International Program participants in the United Kingdom, for the same year.

George Lanz (Chancellor's Office) has been appointed to the position of Deputy Director, Division of Information Systems, effective Mar. 20. He will be in charge of the daily internal operations of the division, placing particular emphasis upon systemwide planning.

Books at High Noon

Frank Hendel (Aeronautical Engineering), will give a presentation on "Energy for Survival; the Alternative to Extinction," by Wilson Clark (TJ 153 C53) for Books at High Noon on Tuesday (Apr. 24) in the Staff Dining Room at noon. Covered will be everything from nuclear power to energy from solid waste.

Dr. Hendel edited "Monograph on Alternative Fuel Resources" published by the American Institute of Aeronautics and Astronautics which is based on papers presented at the Symposium on Alternative Fuel Resources held in Santa Maria in 1976. Hendel has taught a course dealing with this subject for many years. His experience includes working with such engineering companies as North American Aviation, Jet Propulsion Laboratory, and Aerojet General Corp. He received his Ph.D. from Polytechnika Lwowska and has been at Cal Poly since 1967.



STAFF VACANCIES

Vacant support staff positions have been announced by Robert M. Negranti, Staff Personnel Officer. Descriptions of the positions and other vacancies are posted outside the Personnel Office, Adm. 110, Ext. 2236. Contact the Personnel Office to obtain an application. The University is subject to all laws governing Affirmative Action and equal employment opportunity including but not limited to Executive Order 11246 and Title IX of the Education Amendments Act and the Rehabilitation Act of 1973. All qualified persons are encouraged to apply.

Clerical Assistant II-A, \$729-\$871/month; temporary-help, Cataloging Department, University Library. Duties and responsibilities: prepares and types forms for Senior Projects; files and in Public Catalog; assists, as required, with maintenance of Public Catalog and with special projects; types and files correspondence and reports, etc.; prepares statistics of use; and performs other assigned clerical duties. Requirements: equivalent of one year of clerical experience, type 45 wpm, and must have taken the General Clerical Test. Hours: 40-hour flexible work week, with possibility of evening or weekend hours. Closing date: 5-3-79.

Stock Clerk, \$833-\$996/month, Student Health Center. Duties and responsibilities: under supervision, prepare purchase orders for submission to the Purchasing Office, check and distribute incoming supplies and equipment, conduct inventories of all bulk supplies, issue supplies to Health Center departments as needed and keep all appropriate records. Minimum qualifications: Knowledge of medical and pharmaceutical supply terminology, ability to perform arithmetic computations, learn and apply safe methods of moving supplies, do manual labor, keep simple records and reports. One year experience working hospital or clinic central supply or comparable experience. Closing date: 5-3-79.

Carpet Maintenance Worker, \$1116-\$1223/month, Residence Hall Services. Duties and responsibilities: removes, prepares surface and installs direct glue-down and tackless carpeting as well as various hard surface flooring materials such as vinyl tile, sheet goods, etc. Assists and trains others in proper care of carpet and the use of carpet care materials and equipment. Assumes temporary custodial duties when so directed. Develops and maintains carpet program records, estimates labor and material costs, tools and equipment. Submits written justifications and assume related duties as required. Requirements: Three years journeyman installer in direct glue-down, tackless, and

hard surface installation. Ability to follow both oral and written directions; draw and read simple blueprints. Must have a valid California driver's license. Ability to get along well with fellow workers and to willingly adhere to department policies and procedures. Hours: normally 7:30 am to 4:30 pm, but may vary under special circumstances. Closing date: 5-3-79.

FACULTY VACANCIES

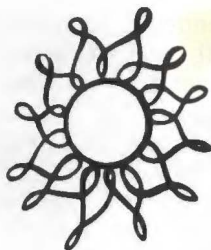
Candidates for positions on the faculty of the University are presently being sought, according to Donald L. Shelton (Director of Personnel Relations). Those interested in learning more about the positions are invited to contact the appropriate dean or department head. This University is subject to all laws governing Affirmative Action and equal employment opportunity including but not limited to Executive Order 11246 and Title IX of the Education Amendments Act and the Rehabilitation Act of 1973. All qualified persons are encouraged to apply.

Part-time Lecturer, \$4,752-\$7,208/quarter; salary based on 15-unit load and will be adjusted according to assignment, Engineering Technology Department, School of Engineering and Technology. Openings are anticipated from time to time during the 1979-80 academic year for part-time lecturers, and an eligibility roster is being established for the following teaching areas: Air Conditioning and Refrigeration, Electronics, Manufacturing Processes, Mechanical, Welding Technology, and Engineering Drawing. Duties of lecturer include teaching lecture and laboratory classes to students at all levels as well as senior project advising. Industrial experience and a Bachelor's degree in an area related to the teaching assignment is required. Master's degree, teaching experience, and registration as a Professional Engineer preferred. Closing date: 5-4-79.

Assistant Professor, \$14,256-\$17,136/year; dependent upon qualifications, Natural Resources Management Department, School of Agriculture and Natural Resources. Tenure track position on 9-month academic year appointment to teach courses in outdoor recreation planning, environmental interpretation, and additional parks and recreation classes. The position will have other related duties, such as student advisement. Doctorate in parks and recreation or related field with emphasis in outdoor recreation. Position available September, 1979. Closing date: 6-15-79.

Part-time Lecturer, \$14,256-\$17,136/year; salary quoted is full-time annual salary for a ten-month appointment and will be adjusted according to assignment and qualifications, Architectural Engineering Department, School of Architecture and Environmental Design. Anticipates part-time openings for the 1979-80 academic year teaching second- and third-year courses in engineering. Candidates are sought whose combined academic and practical experience are in the area related to the structural design of building structures. Applicants with a Masters degree are preferred. However, candidates with a Bachelor's degree and strong professional experience will be considered. Applicants will be required to submit a standard application form including transcripts of all academic work performed toward the Bachelors or Masters degree. Closing date: 5-25-79.

Part-time Lecturer, \$4,336-\$5,712/quarter; salary quoted is based on 15-unit teaching load and will be adjusted according to assignment, Natural Resources Management Department, School of Agriculture and Natural Resources. Duties and responsibilities include teaching introductory courses in Natural Resources Management. B.S. degree in NRM or related discipline and extensive experience required; advanced degree and extensive experience in appropriate disciplines preferred. Part-time quarterly positions for the 1979-80 academic year. Closing date: 5-30-79.



WHO...WHAT...WHEN...WHERE???

Stuart Goldenberg and Myron Hood, both Mathematics, attended the annual meeting of the Southern California Section of the Mathematics Association of the Southern California Section of the Mathematics Association of America at USC Mar. 10. Hood was elected Secretary-Treasurer of the section for a three-year period beginning July.

Arthur L. Schwartz and Donald R. Kummer, Both Business Administration, have been awarded a \$5,000 grant from the Real Estate Education Endowment to conduct research on real property marketability.

FOUNDATION VACANCIES

The Foundation is accepting applications for the following open positions as announced by J. L. Fryer, Personnel Officer. Interested applicants may apply at the Foundation Personnel Office, University Union Building, Room 212, 546-1121. Cal Poly Foundation is subject to all laws governing Affirmative Action and equal employment opportunity including but not limited to Executive Order 11246 and Title IX of the Education Amendments Act and the Rehabilitation Act of 1973. All interested persons are encouraged to apply.

Technical Assistant, \$5.03/hr., half-time, temporary until Jan. 1, 1980. Passive Solar Workbook Project. Duties: Filing, typing and general office work for Passive Solar Research Project. Requirements: Bachelor of Science degree, basic knowledge of alternative energy sources, ability to type 45 wpm. Closing date: 5-3-79.

Project Assistant, \$4.00/hour, half-time temporary until Jan. 1, 1980. Passive Solar Workbook Project. Duties: Doing drafting and graphic work on Passive Solar Research Project. Work will concentrate on passive solar architectural details. Requirements: Undergraduate degree in Architecture, drafting experience with passive solar detailing. Closing date: 5-3-79.

Warehouse Specialist, \$875-1048/mo., Food Service. Operational duties in large volume warehouse with emphasis on purchasing, receipt/distribution and inventory control. Requirements: High School graduate. One year of warehouse experience, physically capable of heavy lifting, power equipment operation experience and possess a valid California driver's license. Closing date: 5-3-79.

W.P. Schroeder, Head, Education Department, has been selected to serve on California Steering Committee for Career Education. The group will convene for two two-day work sessions prior to June 1.

Bernice B. Loughran, Art, who also coordinates the interdisciplinary, humanities courses on campus, was chairman of the recent California Humanities Association annual conference held in Pasadena, where she spoke on the topic, "Values Visualization as a Teaching Device." It was announced at the conference that Dr. Loughran has been elected president of the organization for the coming year.

encouraging notes

- * Guidelines and/or applications available. Research Development Office, Adm. 314.
- *** Contact agency directly.

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- *** NSF - SCIENTISTS AND ENGINEERS IN ECONOMIC DEVELOPMENT PROGRAM. This program provides support for individual U.S. scientists and engineers to apply their experience to problems of development in many countries. It is limited to scientists and engineers from U.S. academic institutions, with at least five years of postdoctoral, or equivalent experience in teaching or research and who will return to their institutions on completion of the project. \$1,500 a month, plus economy class air travel. Further information may be obtained from the Division of International Programs, National Science Foundation, Washington, DC, 20550. Telephone: 202-632-4342.
- DEADLINE: JUNE 1, 1979.*

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- * NSF - EXTRAMURAL RESEARCH SUPPORT AVAILABLE. Proposals for extramural research are encouraged in the following areas: (1) socioeconomic effects of science and technology; (2) innovation processes and their management; (3) environment, energy, and resources; and (4) technology assessment.

The objectives of the Division are derived from the science and technology policy interests and needs of the NSF, the Executive Office of the President and Congress. They include: (1) developing an improved S&T knowledge base for public policy analysis; (2) synthesizing the available knowledge and data relevant to specific policy issues; (3) conducting policy analyses and assessing alternative S&T policy options; (4) enhancing the nation's science policy research and analysis capability; and (5) disseminating the information and knowledge acquired and assimilated.

As a first stage in the proposal process, proposers should submit a brief document summarizing the research question(s) or hypotheses the study intends to address, the research approach or study design to be used, the contribution the project hopes to make, the intended participants, and the procedures for balanced objective analysis. In the case of empirical studies, a brief discussion of the data needs and available resources should be included. These papers will be reviewed to determine whether the proposed work is consistent with program objectives and priorities.

Projects are due on June 1, September 1, and December 1 for projects with funding dates of November 1, February 1, and May 1, respectively.

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- * DOE - UNSOLICITED RESEARCH. The Department of Energy entertains unsolicited proposals that explore a method, approach, or idea, or that carry out research and development and, if necessary, commercial demonstrations not duplicative of work already underway or contemplated by DOE. To stimulate the flow of unsolicited proposals, DOE publishes statements of program interest in unsolved technical areas and in new research directions. These Notices of Program Interest provide general, broad information about the particular DOE program interest in obtaining research applicable to general problem areas or program objectives.

Unsolicited proposals may be submitted at any time; however, because a comprehensive review is required before a proposal can be acted upon, new proposals should be submitted as early as possible, usually several months before the desired beginning of support.



DOE - UNSOLICITED RESEARCH (continued)

Although no particular format need be followed, proposals should include: a cost estimate, detailed by elements; a brief description of the proposer's facilities; a concise title and abstract; a detailed statement of the work plan; available facilities and major items of equipment; and names of key project personnel, along with brief biographical sketches. Eight copies of the proposal should be submitted to assure timely processing by DOE.

The Research Development Office has a brochure describing the full application procedure.

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* NSF - INTEGRATED BASIC RESEARCH. Proposals may be submitted at any time. The following four topics have been selected for funding consideration in FY 1979.

- . Advanced Measurement Investigations. This topic would support efforts to accelerate the creation and development of new measurement methods. This concept spans the scientific disciplines and includes developments in micro-electronics, computer applications, the increased use of laser spectroscopy, and developments to explore the liquid phase which gives insights into particle dynamics that can greatly expand our understanding of ion mobility in solutions.
- . Deep Mineral Resources. Extensive mineral wealth is potentially available at depths of 1 mile or more below ground if deposits can be found and recovered successfully. An understanding of the origins of deep deposits and other relations of geodynamics and tectonics to metallogenesis is vital to future success in deep exploration. Advanced understanding of geophysical and geochemical characteristics of blind ore deposits is needed for development of new exploration technologies. Solution mining technology effective at great depth depends on better understanding of the chemistry of mineral leaching, rock fracture mechanics, reservoir engineering of chemically active fluids, and geophysical and geochemical sensing of subsurface chemical and flow regimes.
- . Biochemical Cycles of Carbon, Nitrogen, and Sulfur. Research efforts are being focused on the carbon cycle in order to better understand its regulation, interaction with other cycles, role in the global energy budget, and how the cycle affects all biota, including human activity. Carbon, nitrogen, and sulfur have been selected for priority consideration because several important contemporary environmental problems seem to be caused by or manifested in perturbations in the biogeochemical cycles of these elements. In addition to improving the state-of-the-art of observation and measurement, research will be supported to address the long range, indirect biological, ecological, health, social and economic impacts of changes in the biogeochemical cycles of the selected elements and closely related problems. Examples of studies which might be supported include: carbon dioxide exchange and modelling of the exchange between the atmosphere, the oceans, and the biosphere; historical information on natural fluctuations in atmospheric levels of carbon dioxide and other important gases; the radiative properties of atmospheres enriched with carbon dioxide and dusts and particles; and the status of tropical forests and soils as sources or sinks of atmospheric carbon.
- . Population Redistribution. Current models of population migration based on responses to job opportunities are no longer adequate; and enhanced understanding of the processes underlying population shifts, migration decisions, industrial location, and residential choices are necessary to provide a more complete explanation and improved prediction of population redistribution patterns.